Technical Datasheet
Cyanolit® 732 F

Product Description

With the superglue Cyanolit® series, Panacol-Elosol offers an optimal product range in the field of cyanoacrylates. Cyanolit® adhesives are solvent-free reaction adhesives formulated on the basis of esters of cyanoacrylic acid. They show very good adhesion to many materials and especially to plastics.

Cyanolit® 732 F is a medium viscosity, fast curing and one component cyanoacrylate adhesive with good bonding to plastics and metals. The medium viscosity is especially suited for bonding porous materials.

Cyanolit® 732 F has met the requirements for USP Class VI and is suitable for use in the assembly of disposable medical devices.

Curing Properties

Curing takes place without heat supply, pressure or additional activators. The classical one-component cyanoacrylates react with moisture, which is absorbed as a moisture film on the material surfaces, in a few seconds.

The curing speed depends on the gap width and the humidity level. A small gap width and a high humidity accelerate the setting process.

After a short time Cyanolit® reaches high strength. The material continues to harden 24 hours after gluing. Only after this time is the optimum media resistance achieved.

The following table describes the setting times on different substrates.

<table>
<thead>
<tr>
<th>Substrate</th>
<th>Curing time [sec]</th>
</tr>
</thead>
<tbody>
<tr>
<td>PVC</td>
<td>5</td>
</tr>
<tr>
<td>PMMA</td>
<td>10</td>
</tr>
<tr>
<td>ABS</td>
<td>15</td>
</tr>
<tr>
<td>PC</td>
<td>20</td>
</tr>
<tr>
<td>NR</td>
<td>5</td>
</tr>
<tr>
<td>steel</td>
<td>15</td>
</tr>
</tbody>
</table>

Technical Data

Resin
Appearance
Gap width max [mm]
Uncured material

Viscosity [mPas]
(Brookfield LVT, 25°C, Sp 2, 60rpm)
PE-Norm 001
Density [g/cm³]
PE-Norm 004
Flash point [°C]
PE-Norm 050

ethy1-2-cyanoacrylate
transparent
0,2

Resin
Appearance
Gap width max [mm]
Uncured material

Viscosity [mPas]
(Brookfield LVT, 25°C, Sp 2, 60rpm)
PE-Norm 001
Density [g/cm³]
PE-Norm 004
Flash point [°C]
PE-Norm 050

230 - 350
1,1
>83
**Cured material**

| Temperature resistance [°C] | -80 - 80 |

**Transport/Storage/Shelf Life**

<table>
<thead>
<tr>
<th>Trading unit</th>
<th>Transport</th>
<th>Storage</th>
<th>Shelf-life*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other packages</td>
<td>at room temperature max. 25°C</td>
<td>0°C - 10°C</td>
<td>at delivery min. 4,5 months max. 9 months</td>
</tr>
</tbody>
</table>

*Store in original, unopened containers!

**Instructions for Use**

**Surface preparation**

The surfaces to be bonded should be free of dust, oil, grease or other dirt in order to obtain an optimal and reproducible bond.

For cleaning we recommend the cleaner IP® Panacol. Substrates with low surface energy (e.g. polyethylene, polypropylene) must be pretreated in order to achieve sufficient adhesion.

**Application**

Our products are supplied ready to use. Depending on packaging they can be applied by hand directly from the container or semi or fully automatically. If help is required, please contact our application engineering department.

Cyanoacrylate adhesives react very quickly with humidity (20% - 80%) or the moisture film on the materials. It is therefore advisable to wear gloves and goggles when handling larger quantities. Cyanolit® is applied punctiform - one or more drops, depending on the size of the surface, onto one of the joining parts. The second joining part is fixed with slight pressure, whereby the adhesive is distributed into a thin film. Acid surfaces prevent or retard the curing, while basic surfaces (pH> 7) accelerate curing.

The application can take place directly from the tip of the dosing bottle, but also with dosing devices. Since the achievable strength depends on the application quantity, an even dosage must be taken into account.

Adhesive and substrate may not be cold and must be warmed up to room temperature prior to processing.

After application, bonding of the parts should be done quickly.

For safety information refer to our safety data sheet.
The product is free of heavy metals, PFOS and Phthalates and is conform to the EU-Directive 2017/2102/EU "RoHS III".

**THE VALUES NOTED IN THIS TECHNICAL DATA SHEET ARE TYPICAL PROPERTIES AND ARE NOT MEANT TO BE USED AS PRODUCT SPECIFICATIONS.**

The information contained in this data sheet is believed to be accurate and is provided for information only. Panacol makes no representation or warranties of any kind concerning this information. It is the user’s responsibility to determine the suitability of this product for any intended use. Panacol does not assume responsibility for test or performance results obtained by the user. The user assumes all risk and liability connected with the use of this product.

The user should adopt such precautions and use guidelines as may be advisable for the protection of property and persons against any hazards that may be involved in this product’s handling or use. Panacol specifically disclaims any liability for consequential or incidental damages of any kind arising from the handling or use of this product.

The information contained in this Technical Data Sheet offers no assurance that the product use, application, or process will not infringe on existing patents or licenses of others. Nothing in this Technical Data Sheet transfers or grants license for the use of any patents, trade secrets, intellectual property, or confidential information that is the property of Panacol.

Except as otherwise noted, all trademarks in this document (identified as ®) are the property of Panacol.